

**Commonwealth of Kentucky  
Division for Air Quality**

**PERMIT APPLICATION SUMMARY FORM**

Completed by: Luis D. Fuentes

GENERAL INFORMATION:

Name:	Summit Polymers, Inc.
Address:	160 Clarence Drive Mt. Sterling, KY 40353
Date application received:	1/15/2009
SIC Code/SIC description:	3089, Plastics Products, NEC (except plastics pipe fittings, inflatable plastics life jackets, plastics furniture parts, and plastics sausage casings)
Source ID:	21-173-00024
Source A.I. #:	3196
Activity ID:	APE20090001
Permit:	F-05-045 R3

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input checked="" type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
<u>x</u> Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input checked="" type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☒ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

**EMISSIONS SUMMARY:** PERMIT MINOR REVISION (F-05-045 R3)

<b>Pollutant</b>	<b>Actual (tpy)</b>	<b>Potential (tpy)</b>
<b>PM<sub>10</sub> = PT</b>	<b>0.662</b>	<b>5.48</b>
<b>VOC</b>	<b>9.55</b>	<b>&lt; 90</b>
<b><u>Single HAPs</u></b>		<b>&lt; 9</b>
Acetonitrile	0.00587	0.0511
Acrylonitrile	0	0.0000664
Cumene	0.00893	0.0778
Ethyl Benzene	0.210	2.23
Glycol Ethers	0.252	2.82
MEK	0.476	5.054
Styrene	0.000123	0.0000931
Toluene	1.201	< 9
Xylene	0.323	3.43
<b>Total HAPs:</b>	<b>2.48</b>	<b>&lt; 22.5</b>

**SOURCE DESCRIPTION:**

Summit Polymers is a manufacturer of small plastic parts for the automotive industry. Products include air conditioning/heating vent dampers and louvers, cup holders, etc. The source operates 30 injection-molding machines that produce the various automotive parts. These parts are then trimmed, inspected, and assembled. The mold “tree” and some rejected pieces and parts are then ground and recycled back through the molding system. Some of the parts, depending upon the desired final product, are sent to a series of nine (9) paint booths. Painted parts are cured in a small infrared oven attached to the paint booths.

The facility is classified as a conditional major source, and as such has accepted federally enforceable emission caps on volatile organics compounds (VOC) and hazardous air pollutants (HAPs) to preclude the applicability of Title V permitting. Source-wide VOC emissions are limited to less than 90 tons per year, source-wide emissions of any individual HAP are limited to less than 9 tons per year, and source-wide emissions of all HAPs combined are limited to less than 22.5 tons per year.

**EMISSIONS AND OPERATING CAPS DESCRIPTIONS:**

In order to preclude the applicability of Title V permitting, the source has requested source-wide caps to limit potential emissions to less than 90 tons per year of VOC, less than 9 tons per year for any single HAP, and less than 22.5 tons per year for combined HAPS.

Monthly emissions calculations are required for the source to demonstrate compliance with these emission caps. Permittee shall use less than 15,120 gallons per year, on a twelve month rolling basis, of 50% content HAP paint.

**MINOR REVISION F-05-045 R3:**

On January 15, 2009, the Division for Air Quality (DAQ) received an application for a minor revision from the Summit Polymers, Inc. Mount Sterling facility for the addition of a paint booth. Emissions of particular matter (PM/PM10), volatile organic compounds (VOC) and hazardous air pollutants (HAPs) from this machine were calculated based upon the highest percentage of each component from the two MSDSs for the coating compounds to be used at the process. The emission resulting from the addition of the paint booth will be 10 tons per year (tpy) of VOC, 1 tpy of PM/PM10, and less than 3 tpy of HAPs. The application was deemed complete on March 10, 2009.

**OPERATIONAL FLEXIBILITY:**    None